



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/719,199	11/21/2003	John E. Campbell	00-RB69(1)	1984
30652	7590	12/19/2005	EXAMINER	
CONLEY ROSE, P.C. 5700 GRANITE PARKWAY, SUITE 330 PLANO, TX 75024			THOMPSON, KENNETH L	
			ART UNIT	PAPER NUMBER
			3672	
DATE MAILED: 12/19/2005				

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b> 10/719,199	<b>Applicant(s)</b> CAMPBELL ET AL.	
	<b>Examiner</b> Kenneth Thompson	<b>Art Unit</b> 3672	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) ☒ Responsive to communication(s) filed on 04 October 2005.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) ☒ Claim(s) 1-30 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-5, 7-20 and 22-30 is/are rejected.
- 7) ☒ Claim(s) 6 and 21 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |                                                                                                    |                                                                             |
|----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)                        | 4) <input type="checkbox"/> Interview Summary (PTO-413)                     |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)               | Paper No(s)/Mail Date. _____                                                |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date <u>14Nov05</u> .                                                             | 6) <input type="checkbox"/> Other: _____                                    |

## DETAILED ACTION

### ***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-5, 7, 8, 10, 11, 14-20, 22, 23, 25, 26, 29 and 30 are rejected under 35 U.S.C. 102(b) as being anticipated by Dunlap et al., U.S. 5,678,635.

Regarding claims 1 and 16, Dunlap et al. discloses a mandrel housing or body (ST) including a plurality of angled channels (76,78) formed into a wall and a plurality of moveable slips (52,54) having a cavity (inner curvature of slips 52,54) engaging the mandrel or body and translating along the channels between a collapsed position (fig 1) and an expanded position (fig 2), wherein in the collapsed position the slips do not extend radially beyond the housing (col. 6, lines 2-10).

As to claims 2 and 17, Dunlap et al. discloses a plurality of extensions (79,77) corresponding to and engaging the channels.

As to claims 3 and 18, Dunlap et al. discloses a drive mechanism (56,58).

As to claims 4 and 19, Dunlap et al. discloses the extensions (79,77) and channels (76,78) support loading (when pressed against the inner bore) on the plurality of slips in the expanded position.

As to claims 5 and 20, Dunlap discloses a pair of slips (col. 8, lines 25-30).

As to claims 7 and 22, Dunlap et al. discloses the plurality of slips (54,52) includes angled surfaces (71) for collapsing the slips into said body.

As to claims 8 and 23, Dunlap et al. discloses an axial flow bore (col. 14, lines 47-50).

As to claims 10, 11, 25 and 26, Dunlap et al. discloses the slips (54,52) grippingly engage (see description, fig. 13) the wellbore.

As to claim 14, 15, 29 and 30, Dunlap et al. discloses locking and releasing means (col. 5, lines 35-65) preventing and allowing slip movement from expanded position to collapsed position.

### ***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 9 and 24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dunlap et al., U.S. 5,678,635 in view of Baker U.S. 5,318,818.

As to claims 9 and 24, Dunlap et al. discloses a hydraulically operated setting tool (ST). Dunlap et al does not disclose a piston translating the slips. Baker teaches use of a piston (P) used to set slips (26) in hydraulic setting tool to improve the integrity of the liner by eliminating passages and ports from the same. It would have been obvious to one having ordinary skill in the art at the time for the invention to arrange for the hydraulic setting tool disclosed by Dunlap

et al to have a piston as taught by Baker to affect actuation. The use of a piston actuation in a hydraulic setting tool is well known in the art.

Claims 12 and 27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dunlap et al., U.S. 5,678,635 in view of Roberts, U.S. 6,164,377.

As to claims 12 and 27, Dunlap et al. discloses the slips (52,54) having gripping engaging means (see description, fig. 13). Dunlap et al. does not disclose the slips having carbide inserts. Roberts teaches use of slips having carbide inserts (28) to dig into and the inner wall of the casing. It would have been obvious to one having ordinary skill in the art at the time of the invention to arrange for the gripping surfaces disclosed by Dunlap et al to have carbide inserts, as taught by Roberts to more firmly connect the slips to the casing.

Claims 13 and 28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dunlap et al., U.S. 5,678,635 in view of Herbert et al. U.S. 5,878,818.

As to claims 13 and 28, Dunlap et al. discloses the slips grippingly engage the wellbore (fig 13; col. 14, lines 45-47). Dunlap does not disclose a plurality of threads radially and axially aligned to resist axial and torsional forces for grippingly engaging the wellbore in the expanded position. Herbert teaches use of a plurality of threads (23,24) radially and axially aligned to resist axial and torsional forces for grippingly engaging the wellbore in the expanded position (col. 5, lines 13-21) to more firmly secure the tool in the wellbore to support subsequent operations. It would have been obvious to one having ordinary skill in the art at the time of the invention to arrange for the slips disclosed by Dunlap to have the thread arrangement as taught by Herbert et al. to more firmly secure the tool thereby improving the effectiveness of the anchor.

***Allowable Subject Matter***

Claims 6 and 21 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter:

The prior art of record does not disclose or suggest all the claimed subject matter including the first pair of slips offset ninety degrees from the second pair of slips.

***Conclusion***

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

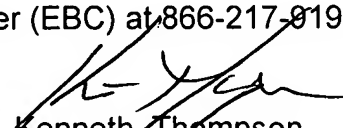
A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kenneth Thompson whose telephone number is 571 272-7037. The examiner can normally be reached on 7:00 am - 4:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David J. Bagnell can be reached on 571-272-6999. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-8197 (toll-free).

12 December 2005



Kenneth Thompson  
Primary Examiner  
Art Unit 3672